

08/418, 185

04/07/95

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## CUSTOMER REQUEST SUMMARY

Your request was:

- Product Code:  
E081
- Keyword list:  
electronic network network system ports control commands electronic devices storage retrieval control means flow control IED ports
- Text: *cl 1*  
A communications processor apparatus for integrating communication between a plurality of electronic devices having data communication capability, such as protective relays, meters, terminal devices and computers, present at a given location in a power system, such as a substation or connected remotely thereto, the apparatus comprising an electronic network system having a plurality of port positions to which electronic devices may be connected, including at least one port position to which an apparatus for entry of control commands may be connected and at least one port position through which data obtained from said electronic devices may be provided; means for storing and retrieving data obtained from the electronic devices; means for processing the data obtained from the electronic devices; and control means for controlling the flow of data and control commands within the apparatus and between the ports.

## E081 SUBJECT SEARCH LIST REPORT - 1994 to PRESENT DATA

Top 3 Classes:

Class: <u>395/800</u>	Frequency: 2
Class: <u>395/842</u>	Frequency: 1
Class: <u>359/152</u>	Frequency: 1

Top closest patents:

Ref	Patent Id	Issue/File	Class	Title
1	<u>5,455,688</u>	Oct 3 1995 Aug 3 1994	<u>358/442</u>	Communication control device for controlling the flow of

data between a plurality of  
devices

Status: certificate of correction has been issued

2	5,489,809	Feb 6 1996 Jul 7 1993	<u>307/126</u>	Power control unit for electronic device
3	5,319,488	Jun 7 1994 Mar 17 1992	<u>359/174</u>	Terminal equipment and optical communication <b>system</b> using the same
4	5,369,768	Nov 29 1994 Nov 18 1991	<u>395/737</u>	Control device for electronic equipment having operating <b>means</b> and a display device
5	5,455,687	Oct 3 1995 Aug 5 1992	<u>358/438</u>	Method for transferring data between electronic filing systems using facsimile communications protocol
6	5,495,239	Feb 27 1996 Aug 2 1994	<u>340/870.02</u>	Method and apparatus for communicating with a plurality of electrical metering <b>devices</b> and a <b>system control</b> center with a mobile node
7	5,388,091	Feb 7 1995 Apr 13 1993	<u>370/13</u>	Communications <b>system</b> for communications between an electronic control apparatus and a test apparatus
8	5,532,682	Jul 2 1996 Aug 23 1993	<u>340/825.06</u>	Control data transmission <b>system</b>
9	5,288,978	Feb 22 1994 Oct 2 1991	<u>235/380</u>	Mutual authentication <b>system</b> and method which checks the authenticity of a device before transmitting authentication data to the device
10	5,491,812	Feb 13 1996 Sep 28 1992	<u>395/500</u>	<b>System</b> and method for ethernet to SCSI conversion

11 ~~5,349,673~~ Sep 20 1994 395/800 Master/slave **system** and its control program executing method  
Status: certificate of correction has been issued

12 ~~5,329,431~~ Jul 12 1994 362/85 Computer controlled lighting **system** with modular control resources  
Status: certificate of correction has been issued

13 ~~5,343,319~~ Aug 30 1994 359/152 Apparatus for adapting an electrical communications port to an optical communications port

14 ~~5,504,669~~ Apr 2 1996 364/131 Information processing device and accessory control device

15 ~~5,548,633~~ Aug 20 1996 379/93 Data collection **network** apparatus and method

16 ~~5,504,880~~ Apr 2 1996 395/180 Method and apparatus for monitoring communication between a computer and plural console **devices** including one main console device and plural sub-consoles

17 ~~5,421,018~~ May 30 1995 395/800 Data communication method and apparatus having improved control over a detachable terminal device

18 ~~5,428,603~~ Jun 27 1995 370/24 Synchronous time division multiple access interrogate-respond data communication **network**

19 ~~5,416,781~~ May 16 1995 370/110.1 Integrated services digital **network** based facility management **system**

20 ~~5,519,603~~ May 21 1996 364/133 Intelligent process control

Jul 12 1994

communication **system** and method  
having capability to time align  
corresponding data sets

21 5,448,721 Sep 5 1995 371/20.1  
Jan 14 1993

Duplicated communications  
processing **system** and  
communications **system** including  
the duplicated communications  
processing **system**

22 5,337,904 Aug 16 1994 211/13  
May 17 1993

Storage and display rack

23 5,293,492 Mar 8 1994 395/842  
Aug 31 1989

Data processing **system** capable  
of storing firmware data in  
**control** memories of an input-  
output processor with reduced  
hardware

24 5,528,589 Jun 18 1996 370/60  
Jun 19 1995

Distributed type packet switching  
**system** and a method of  
controlling a **Flow control**  
execution

25 5,499,342 Mar 12 1996 395/200.12  
May 1 1992

**System** for dynamically  
switching logical sessions between  
terminal device and a processor  
which stops its operation to  
another working processor under  
**control** of communication  
**control** processor

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